

ADAPTIVE VECTOR MODULATION METHOD AND SYSTEM

ABSTRACT OF THE DISCLOSURE

A transceiver for implementing an adaptive vector modulation method is disclosed. In response to a binary stream assembled into groups of bits forming symbol indices, a transmitter of the transceiver generates one or more complex values symbols that are normalized over channel coefficients associated with one or more propagation channels between one or more transmitter antennas and one or more receiver antennas. The transmitter controls a transmission of the complex values symbol(s) from the transmitter antenna(s) to a selected receiver antenna. The selection of the receiver antenna is based upon a metric proportional to the average injection power or a vector norm corresponding to each receiver antenna of the receiver antenna(s).